



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 6] नई दिल्ली, शनिवार, फरवरी 6, 1993 (माघ 17, 1914)  
No. 6] NEW DELHI, SATURDAY, FEBRUARY 6, 1993 (MAGHA 17, 1914)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

The PATENT OFFICE  
PATENTS AND DESIGNS

Calcutta, the 6th February 1993

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The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial Jurisdiction on a zonal basis as shown below :—

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Todi Estates, III Floor,  
Lower Parel (West), Bombay-400 013.

The States of Gujarat, Maharashtra and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

1—447 GI/92

Patent Office Branch,  
61, Wallajah Road,  
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Building,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagadish Bose Road,  
Calcutta-700 020.

Rest of India.

Telegraphic address 'PATENTS.'

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

**Fees :—**The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

## पेटेंट कार्यालय

एकत्र तथा अभिकल्प

कलकत्ता, दिनांक 6 फरवरी 1993

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा मुंबई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं। जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टाईडी इस्टेट,  
तीसरा तल, लोअर परले, (पश्चिम),

फ़ोन-400013 ।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं संघ शासित क्षेत्र गोवा, दमन तथा  
दीव एवं दादरा और नागर हवेली ।

तार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय शाखा,  
एक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
हरमती मार्ग, करोल बाग,  
दक्षिण दिल्ली-110005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

तार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय शाखा,

61, बालाजाह रोड,

मद्रास-600002 ।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य  
क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप,  
मिनिक्काय तथा अमिनिदिक् द्वीप ।

तार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय (प्रधान कार्यालय)

निजाम पैलेस, द्वितीय बहुतलीय कार्यालय,

भवन 5, 6 तथा 7वां तल,

234/4, आचार्य जगदीश बोस रोड,

कलकत्ता-700020 ।

भारत का अवशेष क्षेत्र

तार पता—“पेटेंटॉफिस”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपे-  
क्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट  
कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क :—शुल्कों की अदायगी या तो नकद की जाएगी अथवा  
उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा  
भाक आदेश या अहाँ उपयुक्त कार्यालय अवस्थित है; उस स्थान  
के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट  
अथवा बैंक द्वारा की जा सकती है ।

## THE PATENT OFFICE

Calcutta-700020, the 31st December, 1992

## LIST OF HOLIDAYS FOR THE YEAR 1993

The following days have been declared as Holidays to be observed by this office during the year 1993.

Sl. No.	Holidays & Connected Festivals	Month & Date	Days of the Week
01.	Republic Day	January, 26	Tuesday
02.	Sri Panchami/Vasant Panchami	January, 27	Wednesday
03.	Holi	March, 08	Monday
04.	Id-Ul-Fitr	March, 25	Thursday
05.	Mahavir Jayanti	April, 05	Monday
06.	Good Friday	April, 09	Friday
07.	Buddha Purnima	May, 06	Thursday
08.	Id-Ul-Zuha (Bakrid)	June, 01	Tuesday
09.	Muharram	July, 01	Thursday
10.	Independence Day	August, 15	Sunday
11.	Id-e-Milad (Birthday of Prophet Mohammad)	August, 31	Tuesday
12.	Mahatma Gandhi's Birthday	October, 02	Saturday
13.	Additional Day for Dussehra (Mahashtami)	October, 22	Friday
14.	Dussehra (Vijaya Dasami)	October, 24	Sunday
15.	Diwali (Kali Puja)	November, 13	Saturday
16.	Guru Nanak's Birthday	November, 29	Monday
17.	Christmas Day	December, 25	Saturday

K.M. RAO

Joint Controller of Patents &amp; Designs

## CORRIGENDUM

1. In the Gazette of India Part III, Section 2 dated 11th July, 1992, Page No. 869, Column 1st, under heading "CESSATION" of Patents.

Delete Patent No. 149048

2. In the Gazette of India Part III, Section 2 dated the 25th July, 1992, Page No. 912, Column 2, under heading "CESSATION" of Patents.

Delete Patent No. 149769

3. In the Gazette of India Part III, Section 2 dated the 22nd August, 1992 Page No. 1053, Column 2, under heading "CESSATION" of Patents.

Delete Patent No. 151304

4. In the Gazette of India Part III, Section 2 dated the 5th September, 1992 Page No. 1096, Column 2, under heading "CESSATION" of Patents.

Delete Patent No. 151599

5. In the Gazette of India, Part III Section 2 dated the 31st October, 1992, Page No. 1308 Column 2, under heading "CESSATION" of Patents.

Delete Patent No. 157909

## REGISTRATION OF PATENT AGENTS

The following persons have been registered as a Patent Agent under Sub-Section (1)(c)(i) of Section 126 of the Patents Act, 1970:

1. M. Prabhakaran,  
Flat No. 71, Tatta Colony,  
Chembur, Bombay-400074.
2. U. K. Srivastava,  
Consulta Juris, Empire House,  
3rd floor, 214, Dr. D. N. Road,  
Fort, Bombay.

Calcutta, the 6th February 1993

## APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under section 135 of the Patents Act, 1970.

23rd December 1992

911/Cal/92. Emitec Gesellschaft für Emissionstechnologie MBH. Method for monitoring a catalytic exhaust cleaning system for an internal combustion engine.

912/Cal/92. Kerr-McGee Chemical Corporation. Particulate opacifying extender for polymer coatings.

913/Cal/92. Gilles Ascher. Electrode Connector in particular for electrocardiogram and electrode assembly comprising a connector of this kind.

914/Cal/92. Punya Brata Choudhuri. Method for pre-treatment of agricultural waste for pulp and paper making and method of making pulp.

24th December 1992

915/Cal/92. Texaco Development corporation. Automatic Dewaxing filter washing system and method.

916/Cal/92. Eaton Corporation. Enhanced automated splitter shifting control.

917/Cal/92. ELF Atochem North America, Inc. Method for coating glass substrates.

918/Cal/92. ELF Atochem North America, Inc. Coating Composition for glass.

919/Cal/92. ELF Atochem North America, Inc. Coated Article.

920/Cal/92. Specialised Polyurethane Applications Pty. Limited and Sanleo Holdings Pty. Ltd. Inflatable borohole plug assemblies. (Convention No. PL0178 dated 24-12-91; Australia).

28th December 1992

921/Cal/92. Siemens Aktiengesellschaft. Fossil Fuel-fired Once-through flow steam generator.

922/Cal/92. Eaton Corporation. Auxiliary section actuator control system.

923/Cal/92. Fritz stahlecker and Hans stahlecker. A Bearing arrangement for a shaft of a hollow spindle particularly of a two-for-one spindle of a spinning or twisting machine.

924/Cal/92. General Electric Company. Composition.

925/Cal/92. Timex Corporation. Analog Time-piece Movement for large diameter energy cell.

29th December 1992

926/Cal/92. Siemens Aktiengesellschaft. Metal-enclosed gas insulated switchgear having a cable connection housing.

30th December 1992

927/Cal/92. Kemira Oy Kemira Fibres. A product containing silicon dioxide and a method for its preparation.

31st December 1992

928/Cal/92. Micromet Technology, Inc. Solid metal-carbon matrix of metallofullerites and method of forming same.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents on the prescribed Form 15 of such opposition. The written statement of opposition should be filed along with the said notice or, within one month of its date as prescribed in Rule-36 of the Patents Rules, 1972.

The classifications given below in respect of each specification, are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

### स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बन्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकत्र को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहें।

“प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर-राष्ट्रीय वर्गीकरण के अनुरूप है।”

नीचे सूचीगत विनिर्देशों की सीमित संस्यक मुद्रित प्रतियां, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विद्यमान हैं। यथा समय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है। (अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु माग-पत्र के साथ निम्नलिखित सूची यथा प्रवर्णित विनिर्देशों का सत्या सलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार जिस उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl.: 40 B [IV(1)]  
Int. Cl.: C 01 B 33/28.

171511

A PROCESS FOR PREPARING A MODIFIED ZEOLITE OF THE FAUJASITE TYPE.

Applicants: AKZO nv. of 6824 Arnhem, Velperweg 76, Netherlands, a Dutch company.

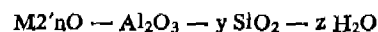
Inventors: MORITZ GIMPEL, JAN WILLIAM REOLOFSEN.

Application No. 388/MAS/88 filed on 8th June 1988.

Appropriate Office for the Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

### 4 Claims

A process for preparing a modified zeolite of the faujasite type, comprising reacting an activated crystalline zeolite of the faujasite type, which is a Y type zeolite having the general formula



in which M is a monovalent or divalent cation, in particular  $Na^+$ , n indicates the valency thereof, y ranges from 3 to 6 and z ranges from 0 to 9, with a gaseous halosilance at an elevated reaction temperature lower than  $150^\circ C$  followed by washing the resultant product first with non-aqueous liquids, particularly with alcohols, preferably with ethanol or methanol and thereafter with water to obtain the modified zeolite of faujasite type.

(Compl. Specn. 12 pages;

Drg. one sheet)

[Inadvertently the above mentioned accepted complete specification was not notified earlier]

Ind. Class: 127-D [GROUP—LXV(1)]

171901

Int. Cl.: F 16 C 3/00, 5/00.

A ROTARY/RECIPROCATORY MOTION CONVERTER.

Applicant: DARTNALL ENGINEERING & INNOVATION PTY. LTD., OF 31 SHIELDS CRESCENT, BOORAGOON, IN THE STATE OF WESTERN AUSTRALIA, COMMONWEALTH OF AUSTRALIA, A COMPANY INCORPORATED IN THE STATE OF WESTERN AUSTRALIA, COMMONWEALTH OF AUSTRALIA.

Inventors: (1) WILLIAM JOHN DARTNALL & (2) DAVID LONGRIDGE.

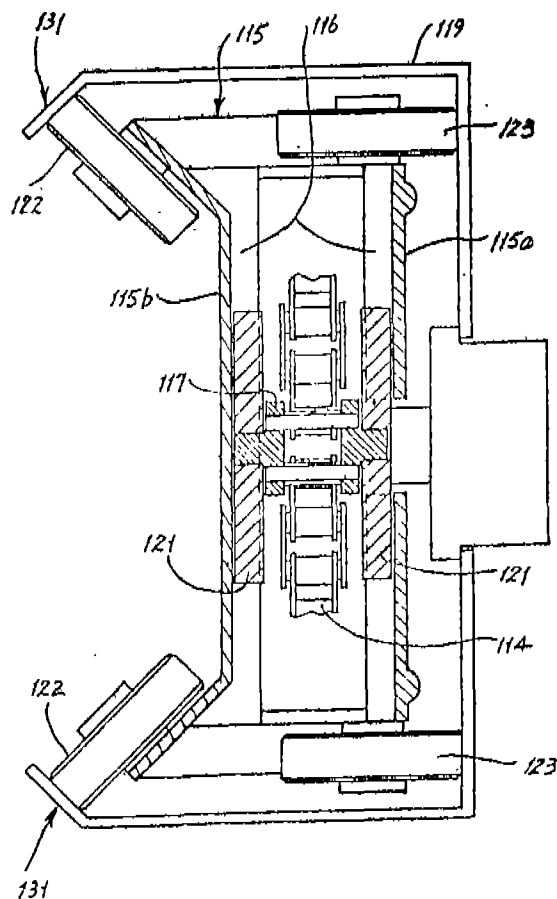
Application No. 404/MAS/88 filed June 15, 1988.

Convention date: June 15, 1987; (No. PI 2498; Australia).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 16 Claims

A continuous rotary to reciprocatory or reciprocatory to rotary motion converter comprising a pair of wheels in spaced co-planar relationship to each other, an endless flexible drive member supported by the wheels, a carrier located to both sides of the drive member, said drive member supporting at one location thereon a slider which extends to each side of the drive member, said slider being movably supported on the carrier to extend to each side thereof for movement with the drive member and transverse movement on the carrier relative to the axis extending between the wheels, whereby with movement of the drive member over the wheels said carrier reciprocates between said wheels and said slider reciprocates transversely on the carrier and support means being provided to support the slider at both sides of the drive member from the carrier continuously throughout movement of the carrier.



(Com. 13 pages;

Drwgs. 8 sheets)

Ind. Class : 40-F [GROUP—IV(1)]

171902

Int. Cl.<sup>a</sup> : B 01 J 8/18.**A CIRCULATING FLUIDIZED BED REACTOR.**

Applicant : A AHLSTROM CORPORATION, A FINNISH BODY CORPORATE EXISTING UNDER THE LAWS OF THE STATE OF FINLAND OF SF-29600 NOORMARKKU, FINLAND.

Inventors : (1) FOLKE ENGSTROM & (2) JUHANI ISAKSSON.

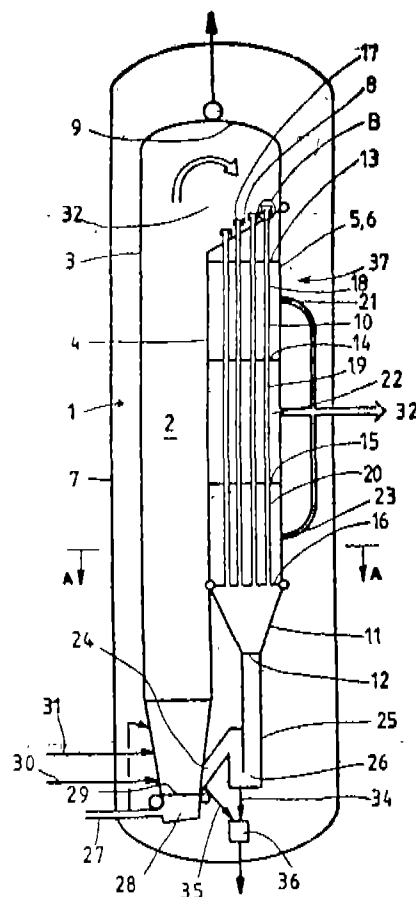
Application No. 492/MAS/88 filed July 12, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**19 Claims**

A circulating fluidized bed reactor comprising an upright reactor chamber (2, 102, 202, 302) having at least one gas discharge opening (32, 44, 144, 244, 344) adjacent to its upper end and at least one inlet opening (24, 124, 224, 324) for solids separated from the gas, adjacent to its lower end characterized by a filter housing (5, 105, 205, 305) being disposed in back-to-back relation with said reactor chamber, means defining a plurality of generally vertically extending horizontally spaced passageways (10, 110, 210, 335), in part formed of porous material, being disposed in said filter housing and said filter housing having a gas inlet (33, 47, 133, 233, 333) in communication with said gas discharge opening and said passageways, a solids outlet (12, 112, 212, 312) in communication with said solids inlet opening and said passageways and at least one clean gas outlet (21, 121, 221, 321) and communicating means (18, 118, 218, 336) for com-

municating gas flowing through the porous material of said passageways with said clean gas outlet.



(Com. 33 pages;

Drwgs. 8 sheets)

Ind. Class : 146-D<sub>2</sub> [GROUP-XXXVIII(2)]

171903

Int. Cl.<sup>a</sup> : G 03 B 21/06; 21/08.**PROJECTION APPARATUS.**

Applicant : OPTICA NOVA ONAB AB, A SWEDISH COMPANY, OF PO BOX 10229, S-100 55 STOCKHOLM, SWEDEN.

Inventor : STIG BERGLUND.

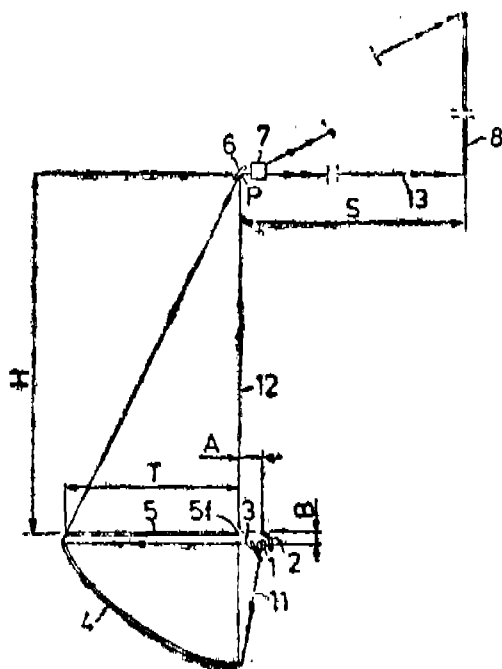
Application No. 494/MAS/88 filed July 13, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**9 Claims**

Projection apparatus having a projection head and a projection stage aperture for an object, the image of which is to be projected, the aperture being placed in the ray path between one or more light sources and the projection head, one or more ellipsoidal mirrors (4) placed in the ray path between the said light sources (1) and the said aperture (5) with one focal point of each said ellipsoidal mirrors (4) coinciding with one of the said light sources (1) and the other focal point of each said ellipsoidal mirror (4) coinciding with the said projection head (7), the said projection head (7) being positioned in a plane orthogonal to the plane of said aperture (5) and parallel with a tangent to the periphery of the said aperture wherein the distance (L) between the said plane orthogonal to the plane of said aperture and the

said tangent to the periphery of said aperture is kept less than or equal to one fourth of the height of said aperture.



(Com. 17 pages;

Drawgs. 3 sheet(s)

Ind. Class : 172 E [XX].

171904

Int. Class : 4—B 65 H—54/02.

**APPARATUS FOR MEASURING THE INSTANTANEOUS SPEED OF YARN.**

Applicant: ZELLWEGER USTER AG, OF WILSTRASSE 11, CH-8610 USTER, SWITZERLAND A SWISS COMPANY.

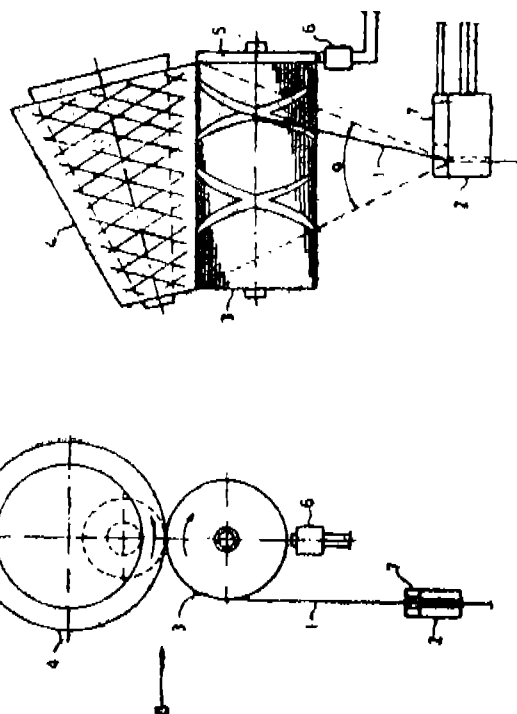
Inventor: KURT AEPPLI.

Application No. 507/MAS/88 filed on 18th July 1988.

Appropriate Office for Opposition Proceedings. (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

#### 6 Claims

Apparatus for measuring the instantaneous speed of yarn being wound in a cross-coil fashion onto a cheese bobbin, having a rotatable cam cylinder for engaging said cheese bobbin to impart a rotational force thereto, a first sensor for sensing the speed of said cam cylinder as it rotates, a second sensor (7) for measuring the instantaneous position of a yarn (1) along the length of the cheese bobbin (4), a processor (11) for adjusting the sensed speed of said cam cylinder (3) by a correction value determined according to the measured position of the yarn to thereby determine the instantaneous speed of the yarn.



(Com. specn. 9 pages;

Drawgs. 2 sheets)

Ind. Class : 172 D2 [XX]

171905

Int. Class : 4—D 01 H—5/00.

**APPARATUS FOR SUPPLYING SPINNING FRAMES WITH FULL BOBBINS FOR SUBSTITUTION WITH EMPTY BOBBINS.**

Applicant: FRATELLI MARZOLI & C.S.P.A., OF VIS DURANTE, 1, 25036, PALAZZOLO SULL'OGGIO (BRESCIA), ITALY, AN ITALIAN COMPANY.

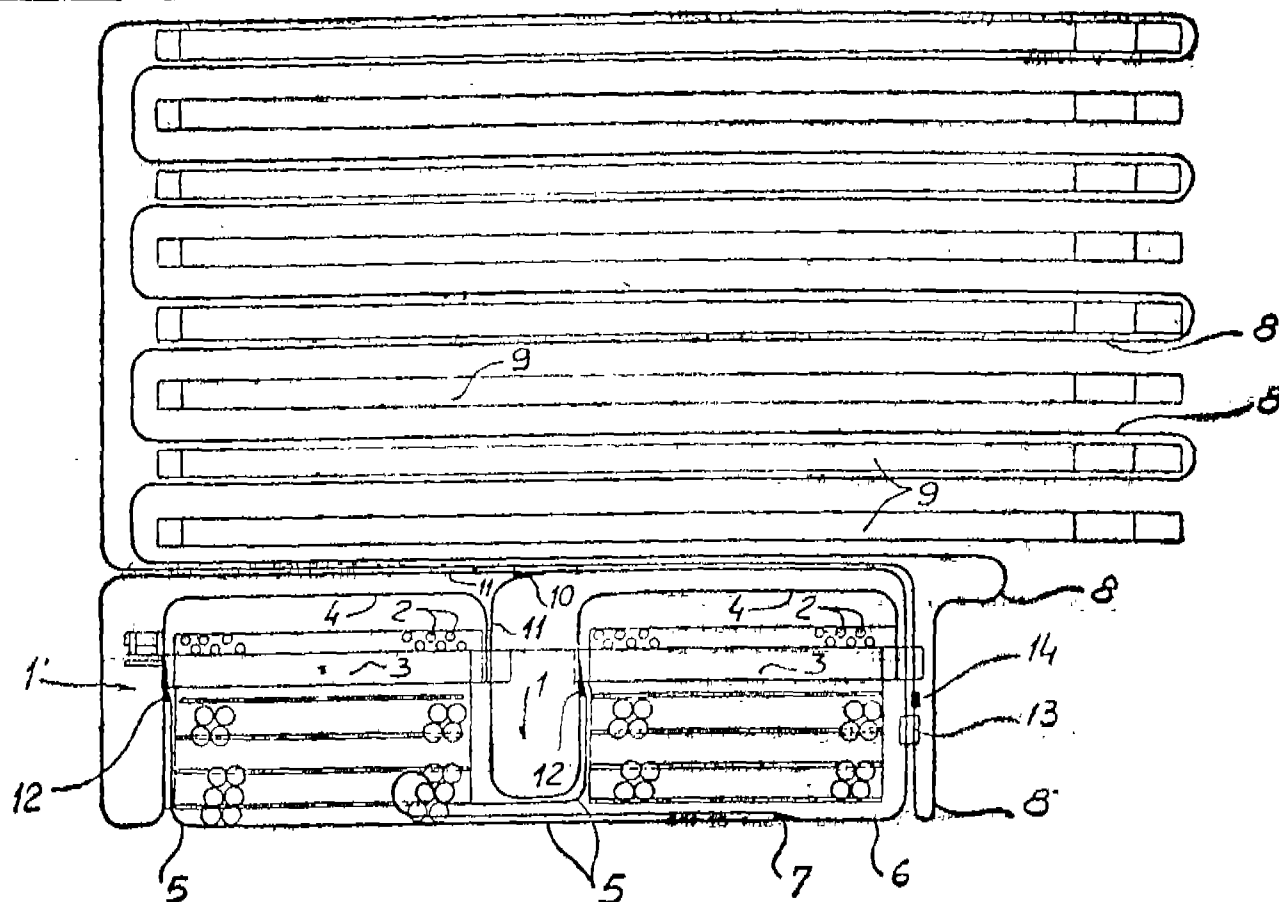
Inventor: PIETRO BIANCHI MARZOLI.

Application No. 512/MAS/88 filed on 19th July 1988.

Appropriate Office for Opposition Proceedings. (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

#### 6 Claims

An apparatus for supplying spinning frames with full bobbins (2), for substitution with empty bobbins, comprising at least a first bobbin supplying path (1) coming from a roving frame (3) to transfer a full bobbin set or train to a second path (1) extending through the perimeter of said roving frame (3), said first path (1) being provided with a conveyor belt capable of intermittent motion, the said second path (1) being provided with a conveyor belt capable of continuous motion, and transferring means (13) for transferring bobbins between said conveyor belts.



(Com. specn. 9 pages;

Drwg. 2 sheet.)

Ind. Class 107 H [XLVII(2)]

171906

Int. Class' F 02 M 59/44.

"AN IMPROVED ELEMENT PLUNGER FOR FUEL INJECTION PUMPS USED IN DIESEL AND MULTI-FUEL ENGINES AND AN IMPROVED METHOD OF MANUFACTURING THE SAME".

Applicant: MOTOR INDUSTRIES CO. LTD., AN INDIAN COMPANY HAVING REGISTERED OFFICE AT HOSUR ROAD, ADUGODI, BANGALORE-560 030, KARNATAKA STATE, INDIA.

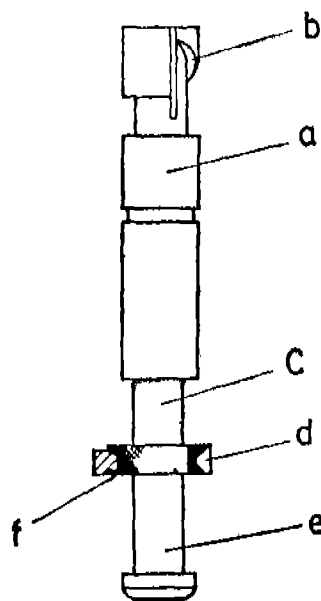
Inventor: MR. PHIROZE HORMUSJI TATA.

Application No. 514/MAS/88 filed on 19th July 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972): Patent Office Branch, Madras.

#### 7 Claims

An improved method of manufacturing an element plunger for fuel injection pumps used in diesel engines and multi-fuel engines comprising making separately a vane with an internal spline and a shaft with a diamond knurl, over a part of its length, assembling the said vane on to the said shaft by positioning the said vane over the part of the shaft having the diamond knurl, filling the cavity between the internal spline of the vane and the diamond knurl on the shaft by the injection of molten zinc alloy providing shouldered abutments on either side of the said vane.



(Com. specn. 9 pages;

Drwg. 1 sheet.)

Ind. Class: 126 B.D. [LVIII (6)]

171907

Int. Class<sup>4</sup>: G 01 V 1/40.

"A SUBSTANTIALLY PINPOINT SEISMIC EMISSION DEVICE".

Applicant: INSTITUT FRANCAIS DU PETROLE, A FRENCH BODY CORPORATE, OF 4, AVENUE DE BOIS-PREAU, 92502 RUEIL-MALMAISON, FRANCE.

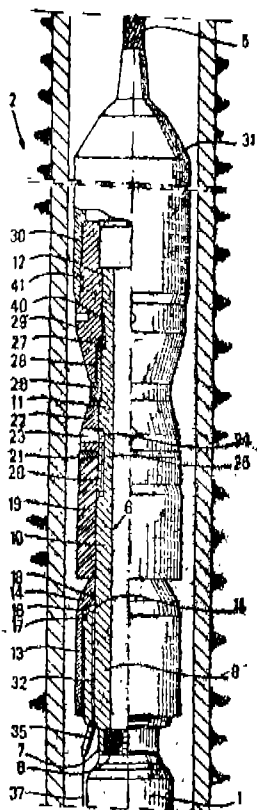
Inventors: 1. ERIC MARIN, 2. MARCEL LE COMTE.

Application No. 539/MAS/88 filed on 28th July 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras-2.

#### 9 Claims

A substantially pinpoint seismic emission device comprising a pulsed seismic source adapted to be lowered into a well or borehole and coupled with the formations surrounding the well by retractable anchorage means, for applying the energy emitted by the source directly to the walls, comprising in combination at least two expandable confinement members disposed on each side of the seismic source and connected thereto, to prevent the propagation along the well of the fraction of energy not transmitted directly to the walls of the well.



(Comp. specn. 14 pages;

Drwgs 2 sheets)

Ind. Class: 32-F.3(c) [GROUP—IX(1)]

171908

Int. Cl.<sup>4</sup>: C 12 F 1/04.

PROCESS FOR PRODUCING A SUBSTANTIALLY ANHYDROUS ALCOHOL CONTAINING TWO OR MORE CARBON ATOMS FROM AN AQUEOUS ALCOHOLIC SOLUTION.

Applicant: INSTITUT FRANCAIS DU PETROLE, A FRENCH BODY CORPORATE, OF 4, AVENUE DE BOIS PREAU, 92502—RUEIL MALMAISON, FRANCE.

Inventors: (1) ANNICK PUCCI & (2) PAUL MIKI-TENKO.

Application No. 541/MAS/88 filed July 28, 1988.

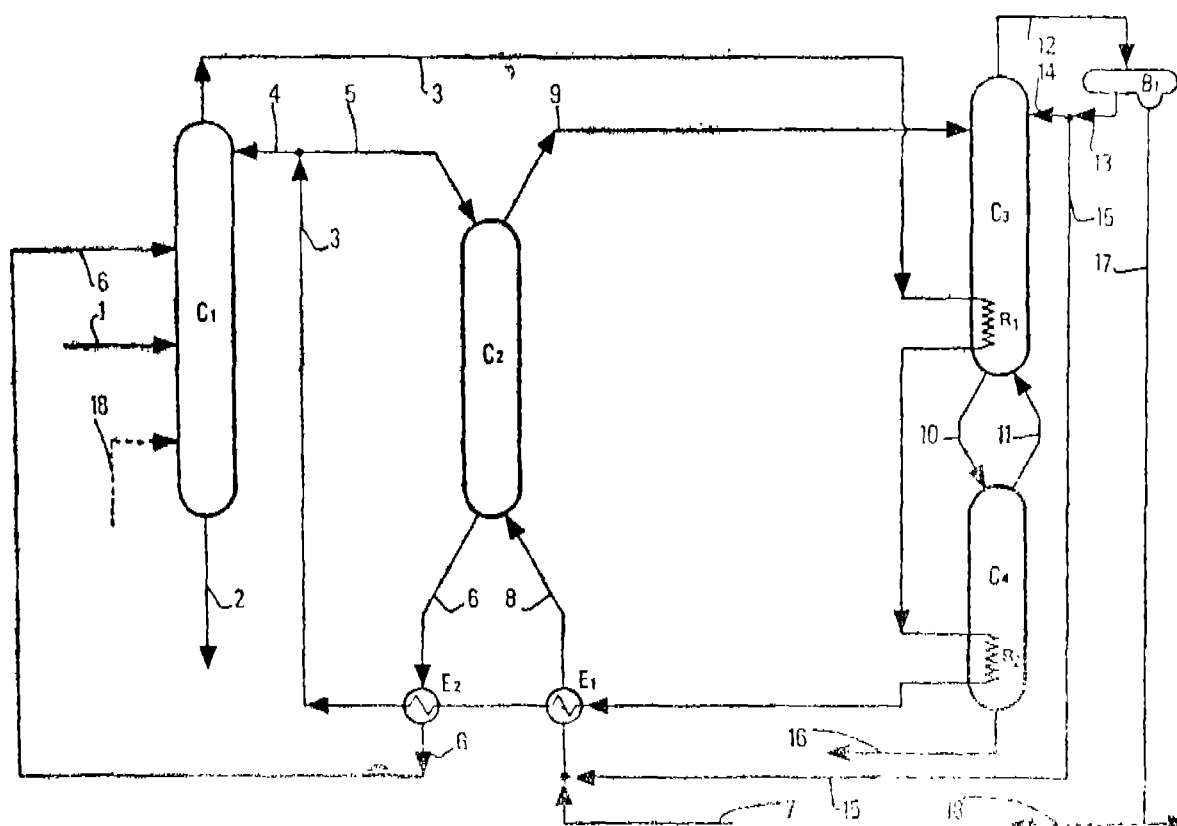
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 5 Claims

Process for producing a substantially anhydrous alcohol containing two or more carbon atoms from an aqueous alcoholic solution comprising:

- (a) distilling the aqueous alcoholic solution under a first pressure P<sub>1</sub> in the range of 1 to 5 bars, to obtain an alcohol distillate with a water content lower than that of the said feed solution but still at least 3% higher than that of the corresponding alcohol-water azeotrope, collected at the top, condensing the distillate by transmitting at least part of the condensation heat to stage (c) and discharging an alcohol-impooverished aqueous phase at the bottom,
- (b) contacting the condensed distillate with at least one liquid hydrocarbon such as herein described containing 2 to 6 carbon atoms and recovering separately a raffinate phase comprising mainly water which is not miscible in the hydrocarbon and an extract phase containing the hydrocarbon and most part of the alcohol,
- (c) distilling the said extract phase under a second pressure P<sub>2</sub> in the range of 1 to 50 bars using the condensation heat from stage (a) as a partial source of heat, said pressures P<sub>1</sub> and P<sub>2</sub> being mutually selected in order to allow the distillation of the most part of the hydrocarbon and the water, collecting the resulting hydrocarbon and water distillate at the top and substantially anhydrous alcohol at the bottom.





(Com 17 pages;

Drwgs. 2 sheets)

Ind. Class : 173-B [GROUP—XXIX(2)]

171909

Int. Cl.<sup>4</sup> : B 05 B 7/00.**APPARATUS FOR USE IN EXOTHERMIC REFRACTORY DEPOSITION.**

**Applicant :** FOSBEL INTERNATIONAL LIMITED, A BRITISH COMPANY, OF 285 LONG ACRE, NECHILLS, BIRMINGHAM B7 5JR, ENGLAND.

**Inventors :** (1) ROBERT PLUMAT, (2) PIERRE DES-CHEPPER & (3) ALFONS RALPH HAMACHER.

**Application No.** 598/MAS/88 filed August 26, 1988.

**Convention date :** September 11, 1987; (No. 8721404; Great Britain).

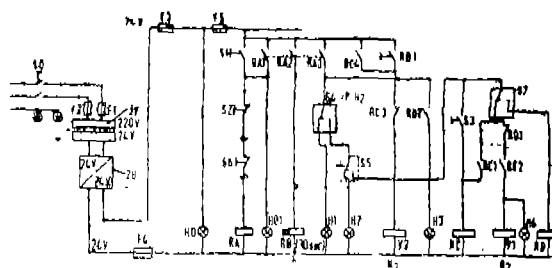
**Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.**

6 Claims

Apparatus for use in exothermic refractory deposition comprising a storing container for storing a mixture of discrete refractory metal oxides and particles of a combustible substance, the said storing container having an ejector for passing the mixture from the said storing container to a discharge conduit, oxidising gas supply means connected to the said ejector for supplying oxidising gas under pressure to the ejector for ejecting the mixture from the storing container and entraining into the said discharge conduit, and purging gas supply means for supplying a purging gas which do not support combustion to the ejector instead of the oxidising gas when a flash-back occurs or could occur, the said storing container, the said ejector, the said discharge conduit and the

2—447 GI/92

connectors being explosion proof up to a pressure of 25 bars.



(Com. 17 pages;

Drwgs 1 sheet)

Ind. Class : 90 I [XXXVII] 58 B, C [XXVI(3)], 27 I [XXVI(1)].

171910

Int. Cl.<sup>4</sup> : B 32 B—3/30, E 06 B—5/20.

**VENTILATED SOUNDPROOF GLASS SHEET.**

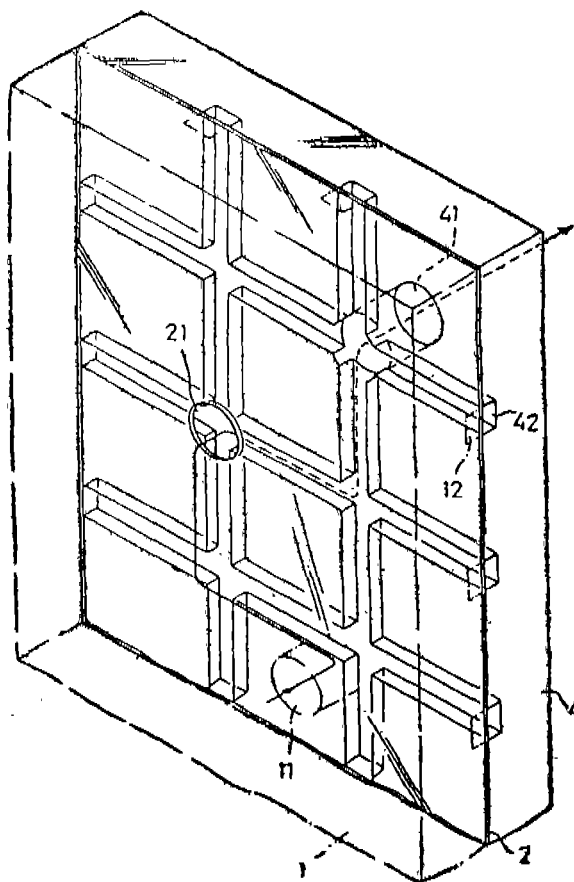
**Applicant & Inventor :** TAO HSUAN HUANG, OF 3F, NO. 10 ALLEY 18, LANE 10, LIN SEN ROAD, YEONG HO, TAPEI HSIEN TAIWAN (REPUBLIC OF CHINA), OF TAIWAN (REPUBLIC OF CHINA) NATIONALITY.

**Application No.** 638/MAS/88 filed on 9th September 1988.

**Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.**

## 3 Claims

Ventilated soundproof glass comprising: at least a first and a second sheet of glass with one sheet of plastic film there between, wherein said sheets of glass and said sheet of plastic film have a plurality of holes therein respectively, said holes of first and second sheet of glass, and said sheet of plastic film being in different horizontal and vertical positions, one side of said first sheet of glass and one side of said second sheet of glass adjacent to said sheet of plastic film having a plurality of grooves arranged thereon between said holes of said first sheet of glass and said second sheet of glass respectively.



(Com. specn. 8 pages;

Drwgs. 7 sheets)

Cl.: 144c.

171911

Int. Cl.: C 01 G 23/047, C 09 C 1/36.

## IMPROVED PROCESS FOR PREPARING A RUTILE TITANIUM DIOXIDE PIGMENT.

Applicant: KERR-MCGEE CHEMICAL CORPORATION OF KERR-MCGEE CENTRE, OKLAHOMA CITY, OKLAHOMA 73102, U.S.A.

Inventors: (1) JOHN CRAIG MAGYAR, (2) ROBERT GERALD MCDELL & (3) EUGENE RAY ADAMS.

Application No. 930/Cal/1988 filed on 7th November 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

## 8 Claims

Process for preparing a rutile titanium dioxide pigment by reaction of a mixture of a titanium halide and an oxidizing gas as herein defined in an amount sufficient to provide for stoichiometric reaction with the titanium halide, in a vapor phase in a reaction zone of a vapor phase oxidation reactor at a temperature of 800°C in the pressure of an added metal

ion containing compound wherein the metal is selected from the group consisting of Groups IA, IIA and the Lanthanide Series of metals of the periodic table of elements, said metal ion containing compound being present in a total amount of from 100 to 1000 parts per million, or 0.3 to 4.0 weight percent based upon the weight of the titanium dioxide pigment being produced, the improvements which comprise:

introducing said metal ion containing compound into said reaction mixture of titanium halide and oxidizing gas in said reaction zone in separate and discrete increments said increments comprising a first increment of 5 to 50 parts per million based on the weight of the titanium dioxide pigment being produced, of the total amount of said metal ion containing compound added and one additional increment, wherein said first increment is introduced into said reaction zone at a point therein prior to or on set of reaction between said titanium halide and oxidizing gas within said reaction zone and wherein said one additional increment is introduced into said reaction zone at a point therein subsequent to partial reaction of said reaction mixture of titanium halide and oxidizing gas; and

recovering the titanium dioxide pigment substantially as produced.

Compl. Specn. 18 pages.

Drwns. Nil

Cl.: 50 C

171912

Int. Cl.: F 25 C 1/00.

## APPARATUS FOR THE PRODUCTION OF SMALL CLEAR ICE BODIES.

Applicant & Inventor: THEO WESSA, SIEDLUNG 19, 6751 MACKENBACH/PFALZ, BUNDESREPUBLIK DEUTSCHLAND.

Application No. 171/Cal/1989 filed on 28th February 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

## 8 Claims

Apparatus for the production of small ice bodies (1), comprising an evaporator (10, 110) which is connected to a refrigeration cycle and which has freezer cells (12) which are open at their bottoms, a water trough (30) which is arranged below the evaporator (10, 110) and a mechanical spraying device (20) which sprays the water out of the trough (30) into the freezer cells (12), whereby the interspaces between the freezer cells (12) are covered with insulating material in the form of plates or strips (14) and defrosting components (17, 15) are placed in the interspaces, and whereby the water trough (30) is filled via a supply pipe (35) at the beginning of the freezing cycles, and emptied via a discharge pipe (34) at the end of the freezing cycles, characterized in that the defrosting components (17, 15) comprise heating elements (15) and metal strips (17) which are in thermal contact therewith and that the defrosting components (17, 15) are arranged on the outside of the insulating material (14, 114) which faces the trough (30) and are guided with a small clearance around the free ends of the freezer cells (12).

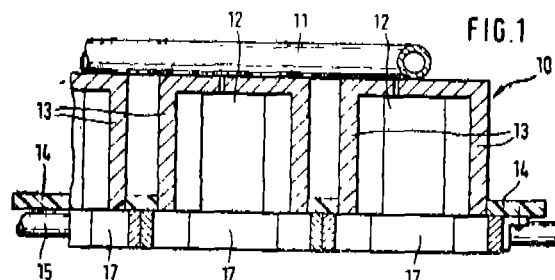
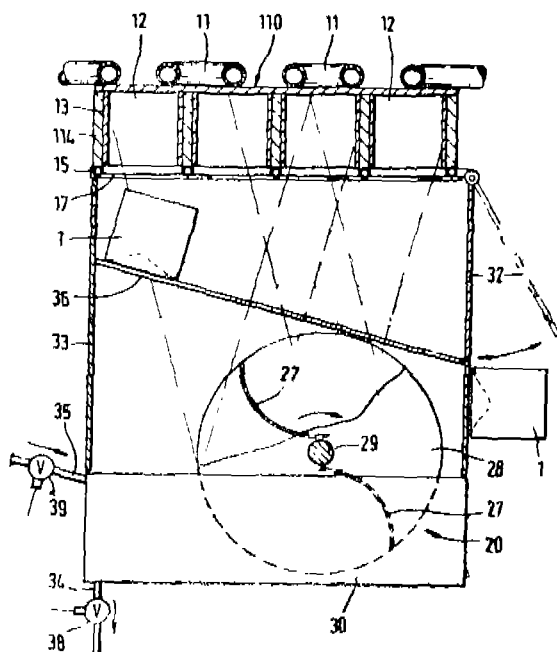


FIG 3



Compl. Specn. 17 pages.

Drgs. 3 sheets

Cl.: 40 G.

171913

Int. Cl.<sup>4</sup>: C 12 N 13/00.

## METHOD OF STERILIZATION OF PACKAGING MATERIAL.

Applicant: ELOPAK SYSTEMS AG, OF FKUGHOFSTRASSE 39, CH-8152 GLATTBRUGG, SWITZERLAND.

Inventors: (1) HELGE BAKKETUN &amp; (2) NIGEL ANTHONY CHANT.

Application No. 341/Cal/1989 filed on 5th May 1989.

(Convention No. 8810603.4 dated 5th May 1988, United Kingdom.)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims

A method of sterilization which comprises subjecting micro-organisms at a surface of packaging material to UV radiation and to an atmosphere in contact with said micro-organisms and comprised of substantially other than air, so as to obtain a synergistic effect between the UV radiation and said atmosphere and to render the micro-organisms non-viable, wherein said micro-organisms are subjected to said radiation before said surface of said packaging material is brought into contact with said product.

(Compl. Specn. 18 pages)

Drgs. Nil)

Cl.: 32 F 3 C

171914

Int. Cl.: C 07 C 31/20.

A PROCESS FOR PREPARING POLY (TETRAMETHYLENE ETHER) GLYCOL (PTMEG) HAVING REDUCED FLUORIDE.

Applicant: E.I. DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventors: SURIYANARAYANAN DORAI AND RICHARD EDWARD ERNST.

Application No. 374/Cal/89 dated 15th May 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

## 20 Claims

A process for preparing poly (tetramethylene ether glycol (PTMEG) which comprises polymerizing tetra-hydrofuran in the presence of fluorosulfonic acid, hydrolyzing the resulting sulfate esters, washing and neutralizing the resulting acidic PTMEG so as to provide an aqueous PTMEG containing between 80 and 600 p pm of fluoride, and thereafter heating said aqueous fluoride-containing PTMEG to a temperature in the range between 200 C and 300 C.

(Compl. specn. 13 pages.

Drgs. Nil)

Cl.: 127 A 53 C.

171915

Int. Cl.: F 16 D 11/00.

ONE WAY CLUTCH.

Applicant &amp; Inventors: STEFAN KARP OF 37 GLENFIELD ROAD, LUTON-BEDS LU3 2HZ, UNITED KINGDOM AND STUART CLYDE BURGESS OF RUNNYMEDE CAMPUS, COOPERS HILL, EGHAM, SURREY, TW20 0JZ, UNITED KINGDOM.

Application No. 524/Cal/89 filed on 4th July 1989.

(Convention No. 8815929 dated 5th July 1988 United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule 1972) Patent Office, Calcutta.

## 7 Claims

A one way clutch, comprising coaxial first and second rotatable clutch members and an arcuate resiliently flexible intermediate member arranged between the clutch members, the first clutch member having a set of ratchet teeth and the intermediate member and second clutch member having means for preventing relative rotation between the intermediate and second clutch members characterised in that the intermediate member has a set of ratchet teeth engageable with the first member ratchet teeth and a set of sloping faced projections at intervals along the intermediate member, in that the intermediate member carries a pawl at one end and in that the second clutch member has a set of sloping faced projections at intervals around the member engageable with those of the intermediate member, the arrangement being such that one relative rotation of the clutch members in a non-driving direction the pawl ratchets over the ratchet teeth of the first member but on relative rotation in driving direction the pawl engages a ratchet tooth of the first member and the projections on the intermediate member abut and ride up the faces of those of the second clutch member to flex the intermediate member towards the first clutch member until the sets of ratchet teeth on the intermediate and first members engage one another to transmit driving torque.

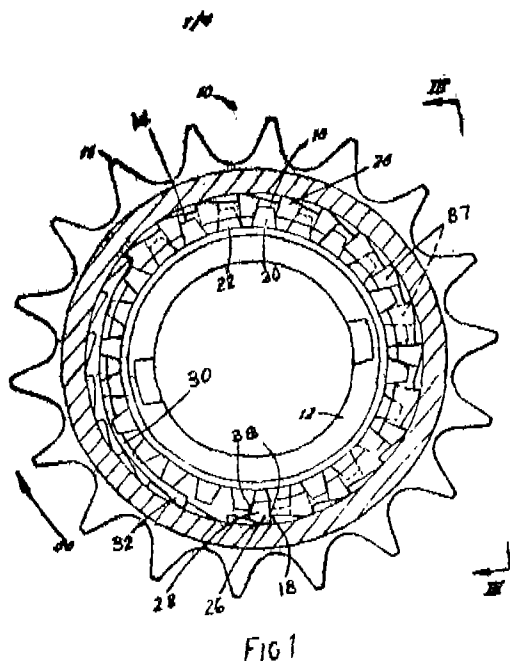


FIG 1

(Compl. specn. 6 pages.

Drgns. 4 sheets)

Cl.: 117 C D &amp; E.

171916

Int. Cl.: E 05 B 37/16, 57/00, 63/22, 67 06,  
67/12, 67/14, 67 16.**PUSH-BUTTON PADLOCKS HAVING SWIVEL-ONLY SHACKLES.**

Applicant: LOCK-R LOCK, INC., 18599 VIERRA CANYON ROAD, SALINAS, CALIFORNIA 93907, USA.

Inventors: ROBERT J. BRETL, AND JEWELL A. TAYLOR.

Application No. 544/Cal/1989 filed on 11th July 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patents Office, Calcutta.

**19 Claims**

A padlock having a first locked mode and a second unlocked mode, comprising in operative combination;

(a) a housing having a front face, a back face spaced from said front face, and at least one wall disposed between said faces to form a perimeter wall of said housing, said faces and said wall defining a volume in said housing, said perimeter wall having at least a first hole therethrough;

(b) a shackle formed in a generally inverted J-shape, having a generally cylindrical first entrained portion and a second free end portion, said first and said second portions being joined by an intermediate portion;

(i) said shackle being disposed with said first entrained portion mounted through said perimeter wall first hole into said housing volume to rotate at least partially around the longitudinal axis of said first cylindrical entrained portion,

(ii) said intermediate portion, and said free end portion being at least partially disposed external of said housing in both said locked and said unlocked modes;

(c) latching means for engaging said free end portion of said shackle, said latching means being mounted in said housing and operatively movable relative to the free end portion of said shackle; and

(d) means for selectively locking said latching means to prevent pivoting release of said shackle free end portion and to provide said first locked mode and said second unlocked mode, so that upon selective release of said latching means, said latching means may be actuated to release said shackle free end and permit pivoting of said shackle by at least partial rotation of said shackle around said entrained cylindrical axis thereof.

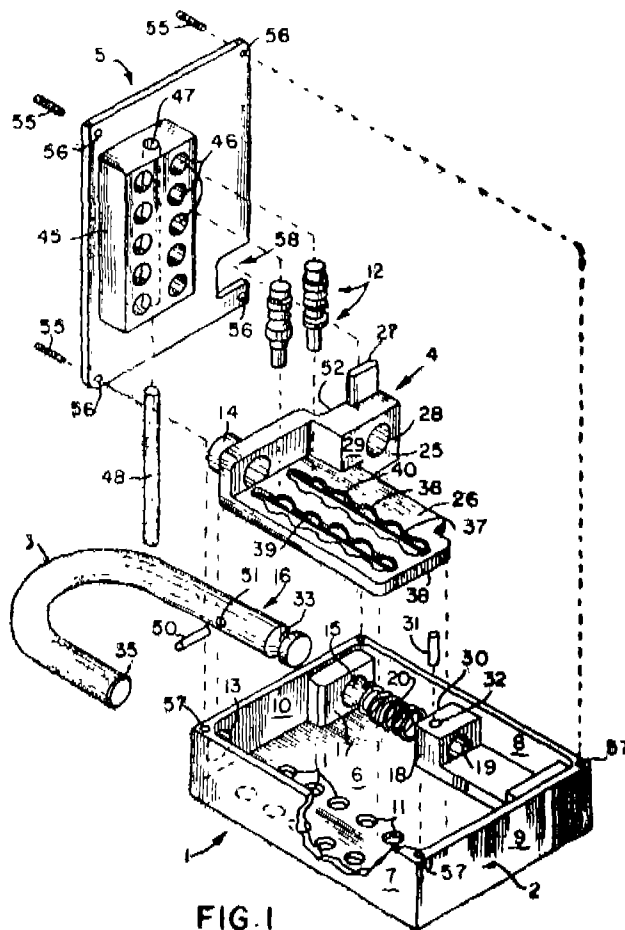


FIG. 1

(Compl. specn. 27 pages.

Drgns. 3 sheets)

Cl.: 172 D.4

171917

Int. Cl.: D 01 H 13/00.

**SPINNING UNIT OF AN OPEN-END SPINNING MACHINE.**

Applicant: ELITEX KONCERN TEXTILNIHO STROJIRENSTVI, OF 7Z. NEJEDLEHO, LIBEREC, CZECHOSLOVAKIA.

Inventors:

- (1) KAREL JINDRA,
- (2) ANTONIN KRAMAS,
- (3) STEFAN MADARASZ,
- (4) BEDRICH CESENEK,
- (5) VACLAV HANUS,
- (6) VLADIMIR NYVLI,
- (7) ALFONS BENES.

Application No. 583/Cal/1989 filed on 20th July 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

Application No. 947/Cal/1990 filed on 12th November 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 8 Claims

A process for preparing a germ-free environment such as air or water comprising introducing vapor of an isothiocyanic acid ester such as herein described into the said environment and removing the isothiocyanic acid esters contained in said environment.

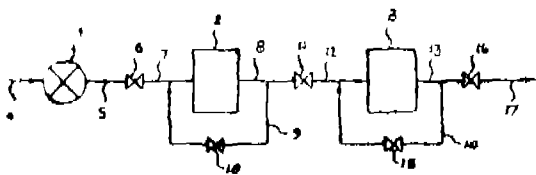


Fig. 1

(Compl. Specn. 56 pages.

Drgns. 3 sheets)

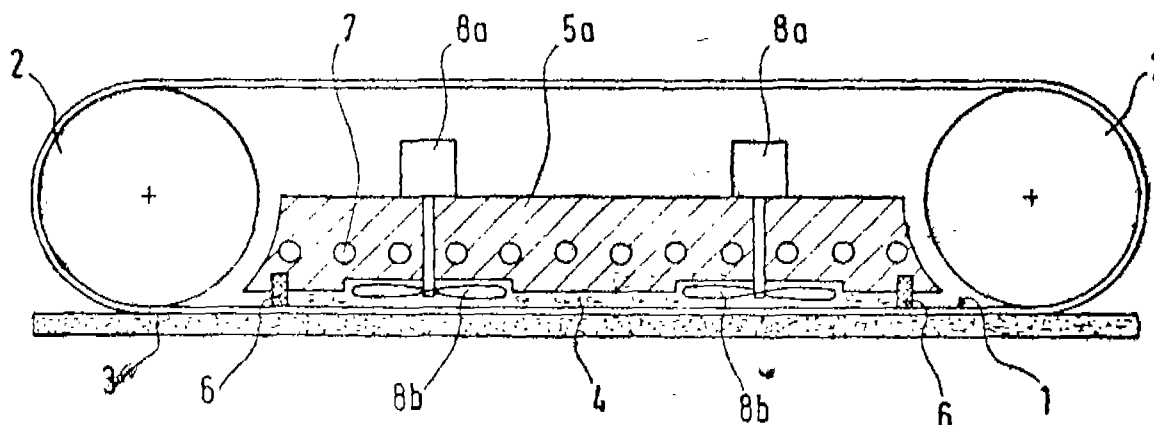
Ind. Class : 203 [GROUP--XXXVII(3)]

171921

Int. Cl.<sup>4</sup> : B 65 H 20/06

B 30 B 15/34.

AN APPARATUS FOR APPLYING A SURFACE PRESSURE AND HEAT OR COLD TO WORKPIECE WHICH ARE DRIVEN BY A PRESSING BAND.



(Com. 16 pages;

Drgns 2 sheets)

Ind. Class : 172-D<sub>1</sub> [GROUP--XX]

171922

Int. Cl.<sup>4</sup> : D 01 H 1/00.

A SPINNING MACHINE FOR PRODUCING YARNS AND A METHOD THEREOF.

Applicant: MASCHINENFABRIK RIETER AG, A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND OF WINTERTHUR, SWITZERLAND.

### Inventors :

- (1) PETER OEHY.
- (2) EMIL BRINER.
- (3) ISIDOR FRITSCH.
- (4) OTHMAR BACHMANN.
- (5) DANIEL BRENNWALDER.

Application No. 437/MAS/88 filed June 24, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 8 Claims

A spinning machine for producing yarns from drawable staple fiber feed stock (11; 37; 113, 208) in which the feed stock is passed from supplies to spinning assemblies, comprising plurality of spinning assemblies having a feed member (13, 19, 36, 38, 106, 202), a drafting member (16, 41...47, 116, 203) and a twist imparting member (48) wherein at least temporarily a production and a stand-by feed stock (11; 37; 113, 120; 208, 223) are provided per spinning assembly, two feed members, (13; 19; 36, 38; 57, 58; 106, 107; 220, 224) are provided for feeding each of the feed stocks, one of the said feed member (13; 36; 57; 106; 220)

Applicant: FIRMA THEODOR HYMMEN, OF THEODOR-HYMMEN-STR. 3 4800 BIELEFELD 1, WEST GERMANY, A GERMAN COMPANY.

Inventor : RAOUL de BROCK.

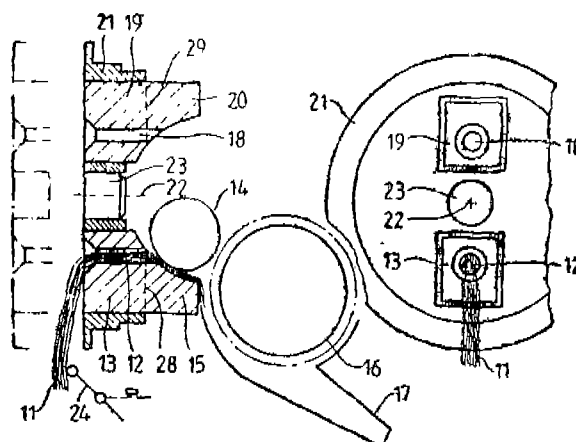
Application No. 357/MAS/88 filed May 25, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 13 Claims

An apparatus for applying a surface pressure and heat or cold to workpiece which are driven by a pressing band, comprising means forming an action zone for accommodating a fluid pressure medium, said action zone forming means having a pressing band and a plate with a seal located between said pressing band and said plate; means for supplying a fluid pressure medium into said action zone for accommodating the fluid pressure medium in said action zone under operational pressure; means for producing an extensive forced movement of fluid pressure medium in said action zone, and when the pressure belt is stationary the forced movement of the pressure medium is terminated.

serving for feed of the production feed stock (11; 37; 113; 208) being located in an operation position and the other feed member (19; 38; 58; 107; 224) serving for feed of the stand-by feed stock being located in stand-by position, and means (23; 33, 34; 104; 236, 238) for changing the feed members between the operating and stand-by positions in dependence upon the presence of a feed stock running from a production feed stock package to the feed member (13, 36, 57, 113, 208) located in the operating position.



(Com. 38 pages;

Drgns 9 sheets)

Ind. Class: 90-K [GROUP—XXXVI]

171923

Int. Cl.: C 03 B 5/12.

**PROCESS AND APPARATUS FOR THE PRODUCTION OF GLASS FROM VITRIFIABLE GLASS-MAKING MATERIAL.**

Applicant: SAINT-GOBAIN VITRAGE, A FRENCH COMPANY, OF 18, AVENUE D'ALSACE, 92400 COURBEVOIE, FRANCE.

Inventors:

- (1) MICHEL ZORTEA.
- (2) ROBERT NOIRLET.
- (3) GERARD DOSSIER.

Application No. 580/MAS/88 filed August 12, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**19 Claims**

Continuous process for the production of glass from vitrifiable glass-making material in a shaft furnace comprising introducing the vitrifiable material into an upstream zone of the shaft and heating it to form a molten mass; the said mass gradually reaching successive down-stream zones of the shaft each more specifically allocated to one of the main phases of a conventional glass production process, including at least the phases of refining and conditioning in order to facilitate its shaping, through at least one restricted zone of the shaft having a reduced cross-sectional area in the direction of flow of the molten mass, and extracting the glass so formed, wherein the molten mass enters the zone upstream of the restricted zone using a surface return stream having a direction of flow from downstream to upstream of the restricted zone.

Apparatus for the continuous production of molten glass from vitrifiable glass-making material comprising a shaft furnace with a generally elongate shape, a plurality of compartments arranged to be traversed in series by the molten mass being produced, each more specifically allocated to one of the main phases of glass production and to at least the melting (21, 40, 61) and conditioning (30, 41, 68) of the molten mass in order to facilitate its shaping, at least one portion of the shaft having a restricted zone (42, 62) of reduced cross-sectional area between two of the said compartments, wherein downstream of an opening in said restricted zone to an upstream compartment, the restricted zone has heating means (48a/b, 65) comprising at least one electrode immersed in the molten mass downstream of the opening into the upstream compartment adapted to cause local heating of the molten mass and produce a surface return stream directed from downstream to upstream of the restricted zone and forming a surface return to the said upstream compartment.

(Com. 27 pages:

Drwgs. 4 sheets)

Ind. Class: 83-B.5 [GROUP—XIV(5)]

171924

Int. Cl.: A 01 K 41/00.

**AN EGG HATCHER STRUCTURE.**

Applicant: THE MARMON CORPORATION, OF 39 S. LASALLE STREET, CHICAGO, ILLINOIS, 60603, U.S.A., A DALEWARE CORPORATION.

Inventor: MATTHEW R FOSTER.

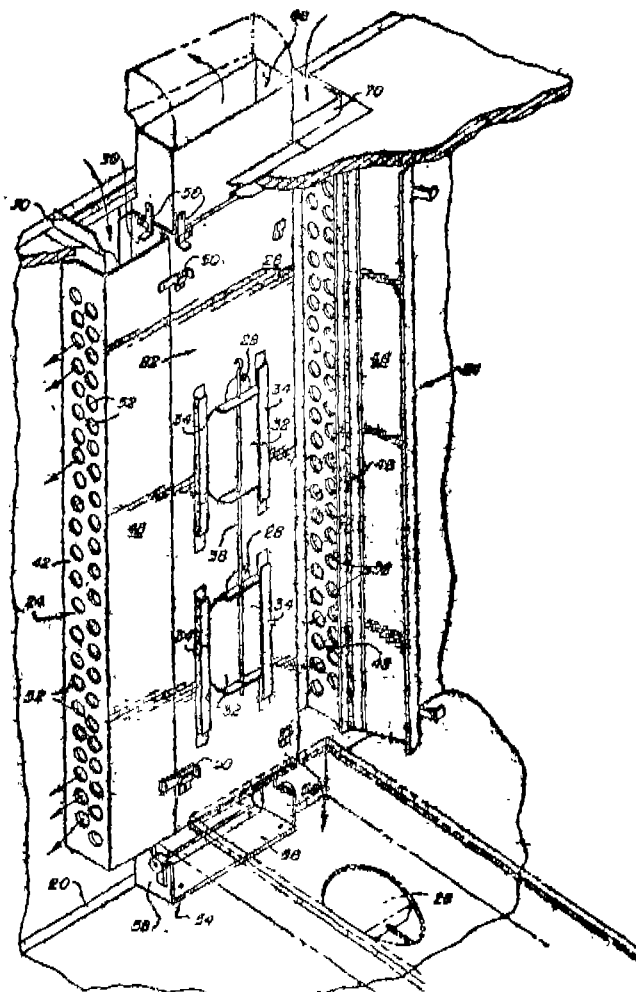
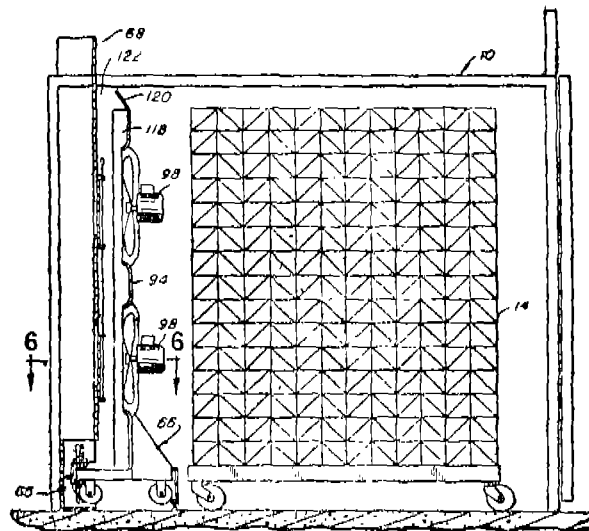
Application No. 666/MAS/88 filed September 23, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**12 Claims**

An egg hatcher structure comprising a hatching chamber, airflow control means for creating a restricted area high pressure air zone within said chamber to control the flow of external air into the hatching chamber and to control the flow of internal air out of the hatching chamber, environmental

adjustment means for heating, humidifying and circulating air within said chamber, said environmental adjustment means mounted on a mobile stand for placement and removal from said hatcher chamber, and environmental adjustment control means for monitoring the temperature, moisture and air circulation levels within the chamber and adjusting the environmental adjustment means and airflow control means to maintain the temperature, moisture and air circulation at prescribed levels.



(Com. 29 pages;

Drwgs. 6 sheets)

Ind. Class : 172D<sub>2</sub> [GROUP—XX]

171925

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

Int. Cl. D 01 H 9/00.

## A SUSPENSION TRANSPORT SYSTEM.

12 Claims

Applicant: VEIT TRANSPO GmbH, OF RUDOLF-DIESEL-STRASSE 3, 8910 LANDSBERG/LECH, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

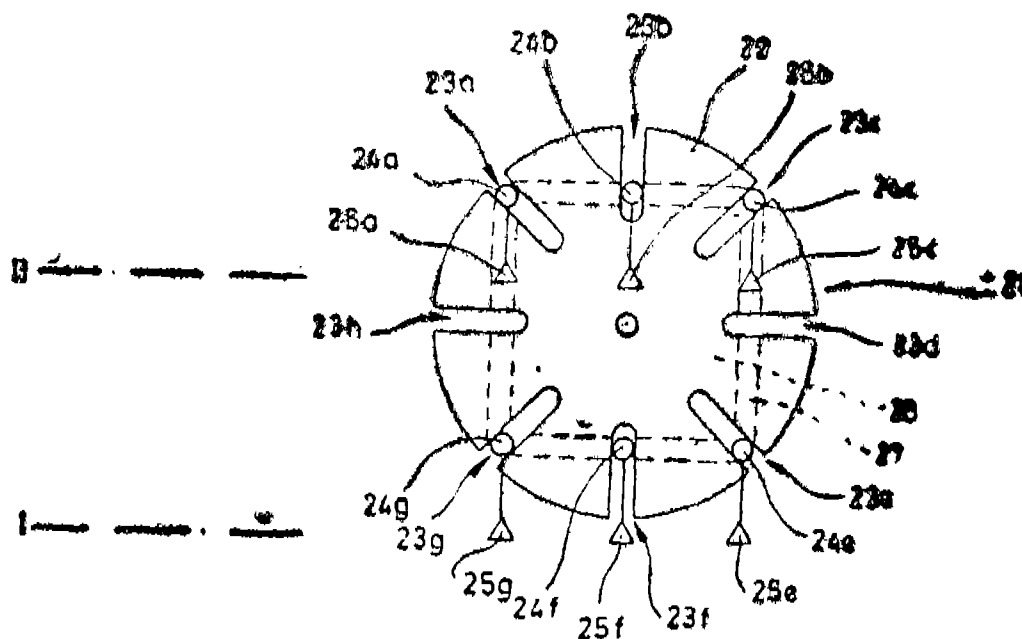
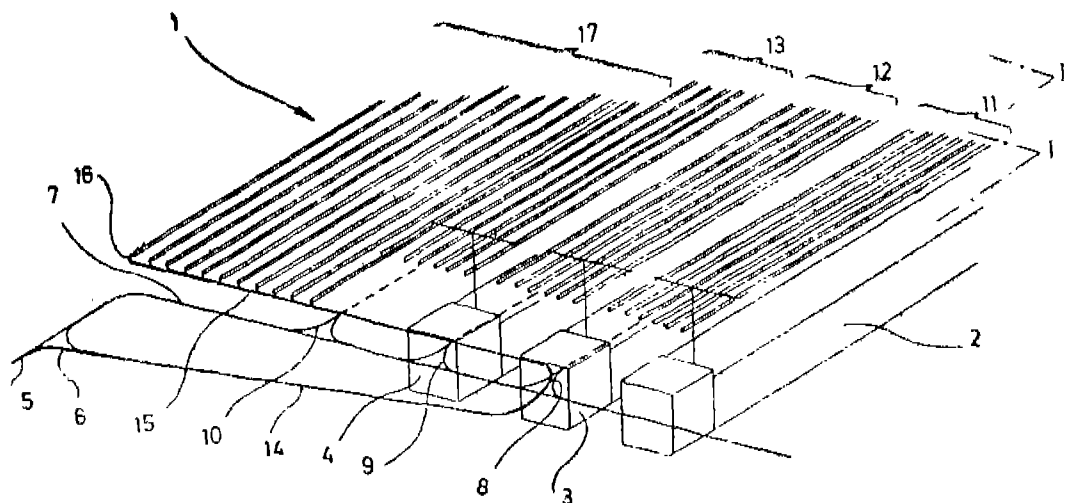
Inventors: (1) ROLF SCHONENBERGER.

(2) WALTER KUNZA.

(3) JOSEPH HAFNER.

Application No. 677/MAS/88 filed September 28, 1988.

A suspension transport system for the intraplant supplying of bobbins to spinning machines, comprising at least one storage section for the intermediate storage of bobbins which is connected to at least one machine section, characterized in that the machine section (11, 12, 13, 25e to 25g, 29, 29d to 29c) is disposed on at least one first transport plane (I) and the storage section (17, 25a to 25c, 29, 29a to 29c) is disposed on at least one second transport plane (II) disposed at a distance to and substantially vertically above the first transport plane (I) and a connection means (14, 18, 21, 28, 38, 40) is provided for bridging the distance.



(Com. 17 pages;

Drawgs. 5 sheets)



Ind. Class : 85-J [GROUP—XXXI]

171926

Int. Cl.<sup>4</sup> : F 27 B 1/00.**A FURNACE FOR COMBUSTION OF FUEL HAVING WIDELY FLUCTUATING THERMAL VALUES.**

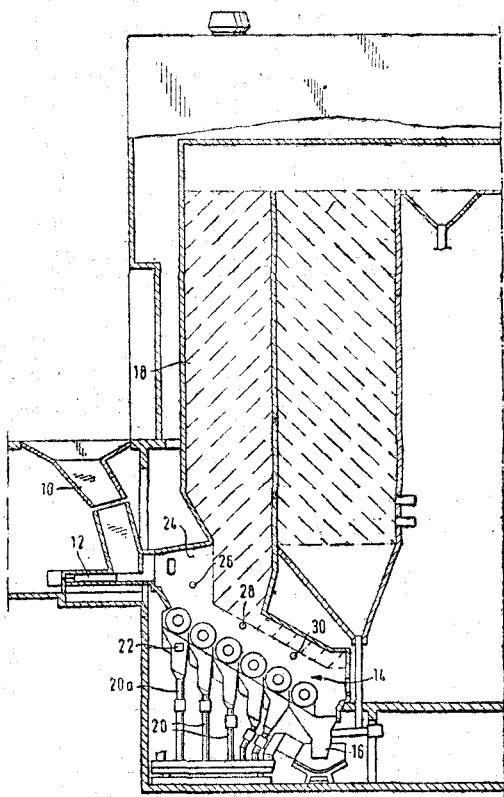
Applicants & Inventors : (1) KURT-HENRY MINDER-MANN OF EGGERSCHEIDTER STR. 112, D-4030 RATINGEN, GERMANY; and (2) FRANZ WINTRICH, OF BERKENBERG 25a, D-4300 ESSEN 13, GERMANY, BOTH GERMAN NATIONALS.

Application No. 679/MAS/38 filed September 29, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**10 Claims**

A furnace for combustion of fuel having widely fluctuating thermal values, comprising means for feeding said fuel to a grid in a combustion chamber via an inlet thereof, means for conveying said fuel along said grid through a degassing and evaporating zone, a primary combustion zone, and a secondary combustion zone in said combustion chamber to an ash-removal station, means for supplying primary combustion air to said grid from there-beneath, means for determining a thermal value of said fuel from properties of combustion gases detected in an area containing said inlet and said degassing and evaporating zone, means for determining fuel density on said grid in said area from air pressure drop in the primary combustion air, and means for controlling the feeding of fuel to said grid in response to said thermal value and said fuel density so as to derive a substantially constant thermal output.



(Com. 11 pages;

Drwgs. 3 sheets)

Ind. Class : 173-A&amp;B [GROUP—XXIX(2)]

171927

Int. Cl.<sup>4</sup> : B 05 B 15/00.**A DEVICE HAVING AN UPSTREAM SIDE AND A DOWNSTREAM SIDE FOR AUTOMATICALLY DELIVERING A PULSE OF LIQUID.**

Applicant : ENICHEM AGRICOLTURA S.p.A. A COMPANY ORGANIZED UNDER THE LAW OF THE ITALIAN REPUBLIC OF VIA RUGGERO SETTIMO, 55-PALERMO, ITALY.

3-447 61/92

Inventors : (1) EMILIO BAROSSO and (2) ALDINO RIVI.

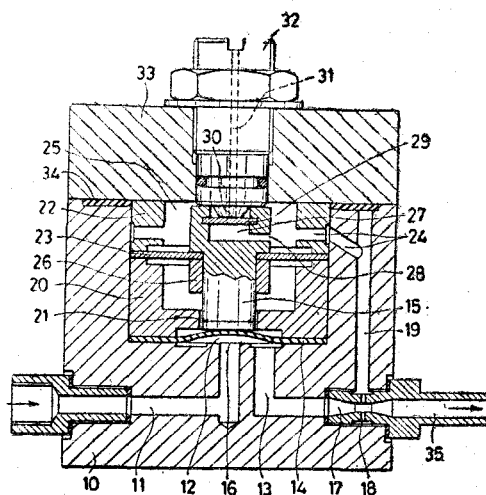
Application No. 694/MAS/88 filed October 5, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**6 Claims**

A device having an upstream side and a down-stream side for automatically delivering a pulse of liquid wherein the upstream side of the device is connected to the liquid source which is under a constant or substantially constant pressure and the downstream side of the device is connected to an open loop distribution system, the said device comprises :

- a venturi on the downstream side of the device having a constricted region wherein said venturi receives the liquid;
- a branching duct which branches off from said constricted region for transmitting a depressure generated by said venturi;
- an inlet duct located on the upstream side of the device for feeding the liquid from its source into the device;
- a vent to the atmosphere for decreasing the pressure within the device; and
- a piston-like sliding member reciprocating between a first end position and a second end position wherein said sliding member has a first face responding to the delivery pressure of the liquid and a second face substantially parallel to said first face responding to said depressure generated by said venturi and transmitted by said branching duct, wherein said first end position results in opening said inlet duct and simultaneously closing said vent in response to said depressure generated by an increase in liquid flow through said venturi during charging of the distribution system and said second position results in closing said inlet duct and simultaneously opening said vent to the atmosphere in response to increased pressure generated by a decrease in liquid flow through said venturi transmitted by said branching duct during discharging liquid from the system.



(Com. 19 pages;

Drwgs. 4 sheets)

Ind. Class : 172-F [GROUP—XX]

171928

Int. Cl.<sup>4</sup> : D 02 F 3/02; 7/08**AN ENDLESS UNWOVEN PRESS FELT.**

Applicant : TAMFELT, INC., U.S. CORPORATION, OF DRAPER LANE, CANTON, MASSACHUSETTS 02021, U.S.A.

Inventors : (1) ROBERT WAYNE LEGGE.

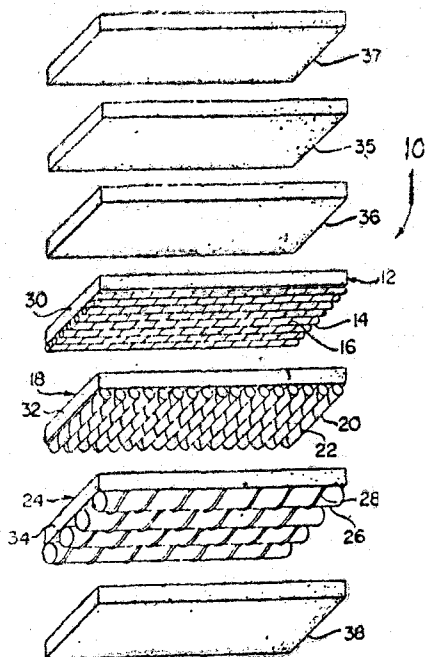
(2) WILLIAM OLIVER HOCKING.

Application No. 696/MAS/88 filed October 5, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 21 Claims

An endless, unwoven press felt comprising a plurality of unwoven yarn assemblies that are located in overlying adjacent parallel relation with respect to one another, each of said yarn assemblies are composed of a plurality of layers of textile material comprising at least one layer of fibrous batt material and a layer of an array of yarns that is defined by a plurality of yarns that are disposed substantially parallel to one another, said layer of fibrous batt material supporting the layer of array of yarns in each yarn assembly, the layer of array of yarns in one yarn assembly is disposed in non-parallel or transverse relation with respect to the layer of array of yarns in an adjacent assembly, and said overlying adjacent yarn assemblies being united together without the interconnection of a separate yarn binding means extending therebetween.



(Com. 27 pages;

Drwgs. 2 sheets)

Ind. Class : 6-A<sub>3</sub> [GROUP—XLVII(1)]

171929

Int. Cl.<sup>4</sup> : F 04 C 29/06.

### A COMPRESSOR ASSEMBLY.

Applicant: TECUMSEH PRODUCTS COMPANY, A CORPORATION OF THE STATE OF MICHIGAN, OF 100 EAST PATTERSON STREET, TECUMSEH, MICHIGAN 49286, U.S.A.

Inventor: EDWIN L. GANNAWAY.

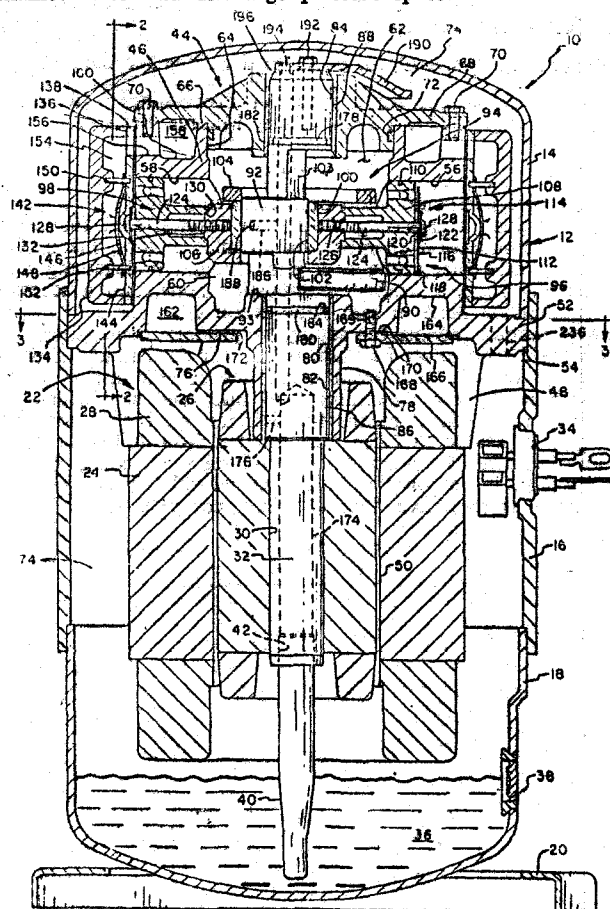
Application No. 729/MAS/88 filed October 18, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 9 Claims

A compressor assembly comprising a hermetically sealed housing (14) defining a discharge pressure space (74), a crankcase (46) and a cylinder formed therein, said crankcase having a cavity into which said cylinder opens; a crankshaft (32) rotatably received in said crankcase and having a piston (96) operably connected thereto within said cavity, said piston being operably received in said cylinder to compress gaseous refrigerant received therein; characterized in that a first muffling

chamber (158) and a second muffling chamber (162) located on respective opposite axial ends of said crankcase; gas passage means (234) extending through said crankcase for providing communication between said first muffling chamber and said second muffling chamber; means for discharging gaseous refrigerant compressed within said cylinder into said first muffling chamber; and means (166, 172) for exhausting gaseous refrigerant from said second muffling chamber into said discharge pressure space.



(Com.—25 pages; Drwgs.—3 sheets; one sheet of size 33.00 cms. by 41.00 cms.)

Ind. Class : 172-D<sub>4</sub> & s [GROUP—XX]

171930

Int. Cl.<sup>4</sup> : D 01 H 7/882.

### AN OPEN END SPINNING DEVICE AND METHOD OF MANUFACTURING IT.

Applicant: SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESellschaft, OF FRIEDRICH-EBERT-STRASSE 84, 8070 INGOLSTADT, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

Inventor: EDMUND SCHULLER.

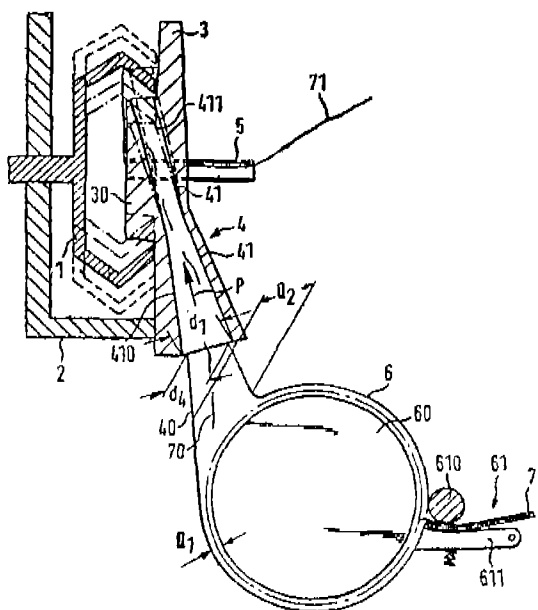
Application No. 759/MAS/88 filed October 31, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 11 Claims

An open-end spinning device comprising an opening roller casing (6), an exchangeable spinning rotor (1), a rotor cover (3) associated with the spinning rotor, and a divided fibre feed duct (4) extending from the opening cylinder casing to the rotor cover, the first part (40) of the duct being in the opening roller casing and the second part (41) of the fibre feed duct (4) being integrally cast in the rotor cover (3), the said second part (41) of the fibre feed duct (4) inside the rotor cover (3) has first and second longitudinal portion

(410, 411), the centre lines ( $M_1$ ,  $M_2$ ) of which has an obtuse angle ( $\alpha$ ,  $\gamma$ ) and the centre line ( $M$ ) of the first part (40) of the fibre feed duct (4) in the opening roller casing forms an obtuse angle with the centre line ( $M_1$ ), of the first lengthwise portion (410), of the second part (41) of the fibre feed duct.



(Com. 26 pages)

Drwgs. 4 sheets)

#### PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specification are available for sale from the Patent Officer, Calcutta, and its branches at Bombay, Madras, and Delhi at two rupees per copy:—

(1)

160351 160352 160353 160354 160355 160356 160357 160358  
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160471 160472 160473 160474 160475 160476 160477 160478  
160479 160480 160481 160482 160483 160484 160485 160486  
160487 160488 160489.

PATENTS SEALED

On

8th JANUARY 1993

169534 169611\* 169754\* 169762 169821 169839 169942  
169971.

CAL—04

DEL—02

MAS—01

BOM—01

\*Patent shall be deemed to be endorsed with the words 'LICENCE OF RIGHT' under Section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of sealing.

#### OPPOSITION PROCEEDINGS U/s 25

The opposition entered by Khaitan (India) Limited to grant of a patent on application for patent No. 158082 as notified in Gazette of India Part-LI section 2 dated 18th April 1987 has been dismissed and a patent has been ordered to be sealed on the application.

#### OPPOSITION PROCEEDINGS

An Opposition has been entered by Bajaj Auto Limited, Pune on Patent Application No. 170897 made by India National Electricals Limited, Madras.

#### AMENDMENTS PROCEEDINGS UNDER SECTION 57

Notice is hereby given that M/s Samsonite Corporation, a Corporation Organised under the laws of State of Delaware has made an application on form 29 under section 57 of The Patents Act, 1970 for amendment of specification of their application for Patent No. 169190 (1093/D/87) for A Flexible Garment Bag. The amendments are by way of correction so as to ascertain and describe the invention more correctly and precisely. The application for amendment and the proposed amendments can be inspected free of charge at the patent office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005, or copies of the same can be had on payment of usual copying charges.

Any person interested in opposition the application for amendment may file a notice of opposition in form 30 within three months from the date of the notification at Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005. If the Written Statement of Opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

The amendments proposed by "COMPAGNIE GENERALES DESSESTABLISSEMENTS MICHELIN- MICHELIN & CIE" in respect of Patent Application No. 170568 (136/MAS/88) as advertised in Part III, Section 2 of the Gazette of India on 22-8-1992 and No. Opposition being filed within the stipulated period, the said amendments have been allowed.

The amendments proposed by "LABORATORIES DELA-GRANGE" in respect of Patent Application No. 578/MAS/90 (170789) as advertised in Part III, Section 2 of the Gazette of India on 22-8-1992 and no Opposition being filed within the stipulated period, the said amendments have been allowed.

The amendments proposed by "SORG GMBH & CO. KG" in respect of Patent Application No. 191/MAS/88 (171025) as advertised in Part III, Section 2, of the Gazette of India on 22-8-1992 and no Opposition was filed within the stipulated period. The said amendments have been allowed under Section 57 of the Patents Act, 1970.

The amendments proposed by "AKZO NV" in respect of Patent Application No. 171030 as advertised in Part III, Section 2 of the Gazette of India on 22-8-1992 and no Opposition being filed within the stipulated period, the said amendments have been allowed.

#### RENEWAL FEES PAID

149124 150074 151789 151820 153829 156335 159223 159241  
159517 159521 160342 162564 162972 163137 163294 163602  
163488 163599 163605 163606 163785 163816 166262 166337  
166505 166646 166647 166648 166891 166892 167677 167707  
167718 168079 168071 168098 168353 168422 168430 168435  
168599 168775 168779 168857 168883 168884 169157 169161  
169167 169168 169204 169212 169224 169317 169318 169342  
169343 169349 169350.

## CESSATION OF PATENTS

160222 160225 160235 160236 160237 160241 160243 160245  
 160249 160252 160253 160257 160259 160265 160267 160268  
 160272 160276 160277 160278 160281 160283 160285 160288  
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 160477 152237 152295 157841 159858 160658 162921 167512  
 167513 168809.

## RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 160058 dated the 2nd March 1984 made by Birinder Bhullar on the 30th January 1992 and notified in the Gazette of India Part III, Section 2, dated the 28th March 1992 had been allowed the said patent restored.

Notice is hereby given that an application for restoration of patent No. 160066 dated the 7th February 1985 made by Synthetics and Chemicals Ltd. on the 30th January 1992 and notified in the Gazette of India Part III, Section 2, dated the 28th March 1992 has been allowed and the said patent restored.

Notice is hereby given that an application for restoration of Patent No. 161348 dated the 27th June 1984 made by Santanu Roy on the 19th June 1992 and notified in the Gazette of India Part III, Section 2, dated the 19th September 1992 has been allowed and the said Patent restored.

Notice is hereby given that an application for restoration of Patent No. 165212 dated the 29th November 1985 made by Fuller Company on the 25th November 1991 and notified in the Gazette of India Part III, Section 2, dated the 22nd February 1992 has been allowed and the said Patent restored.

Notice is hereby given that an application for restoration of Patent No. 165511 dated the 11th January 1987 made by Gopi Krishan Kabra on the 25th November 1991 and notified in the Gazette of India Part III, Section 2, dated the 25th January 1992 has been allowed and the said Patent restored.

Notice is hereby given that an application for restoration of Patent No. 167632 dated the 9th June 1986 made by National Remote Sensing Agency, on the 14th May 1992 and notified in the Gazette of India Part III, Section 2, dated the 1st August 1992 has been allowed and the said Patent restored.

Endorsement of Patents with the words "LICENCE OF RIGHT" Under Section 87 of the Patents Act 1970:

Patent No.	Date
162785	24-01-92
162789	
162797	
162798	
162814	
162818	
162575	
162698	
162669	
162682	
162716	
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162452	
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162592	
162709	

## Patent No.

## Date

162717	
162787	24-01-1992
162761	
162768	
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162810	
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162570	
162583	
162586	
162320	
162446	
162448	
162323	
162367	

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration of the design included in the entry.

Class 1. No. 164383. SGB (India) Ltd., Indian Company of Manisha, 4th floor, 75-76, Nehru Place New Delhi-110019, India. "Jack". May 15, 1992.

Class 3. Nos. 164204 & 164205. Ambitious Writing Instruments, 49, West Avenue, Punjabi Bagh Delhi, India, Indian Partnership Firm. "Pen". April 1, 1992.

Class 3. No. 164519. Balkrishna Tyres, Indian Company of 305, Creative Industrial Estate, N. M. Joshi Marg, Bombay-400011, Maharashtra, India. "Tyre for motorcycles". July 8, 1992.

Class 3. Nos. 164540 to 164542. Bond Street Perfumes and Cosmetics Pvt. Ltd. of 32, Hassa Mahal, Dalamal Park, Cuffe Parade, Colaba, Bombay-400005, Maharashtra, India. "Container". July 14, 1992.

Class 3. No. 164606. Time Packaging Ltd. of 604, Vishwanath, I.C.T. Link Road, Chakala, Andheri (E), Bombay-400099, Maharashtra, India, Indian Company. "Drum". July 21, 1992.

Class 3. No. 164652. Hindustan Lever Ltd. of Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400020, Maharashtra, India, Indian Company, "Multicavity Dispensing Container", July 31, 1992.

Class 3. No. 164796. Vee Kay Ess Electronics, B 56-57, Wazirpur Group Industrial Area, Delhi-110052, India, Indian Partnership Firm. "Foot Massager". September 16, 1992.

Class 4. No. 164546, Ashoke Enamel & Glass Works (P) Ltd. of 34A, Metcalfe Street, Calcutta-700013, W.B., India, Indian Company. "Jar". July 15, 1992.

Copyright extended for the 2nd period of five years

No. 158820.—Class 1.

No. 159184.—Class 3.

No. 162193.—Class 5.

Copyright extended for the 3rd period of five years.

No. 152963.—Class 1.

Nos. 151901 and 151902.—Class 3.

**R. A. ACHARYA**  
Controller General of Patents Designs  
and Trade Marks

